U.S. Department of the Interior
U.S.Geological Survey

1:2,000,000-Scale Digital Line Graph Data on CD-ROM

Updated U.S. Geological Survey digital line graph (DLG) data collected at a scale of 1:2,000,000 are now available on two compact discs-read only memory (CD-ROM). Each CD-ROM contains digital cartographic data for 49 States and the District of Columbia. The U.S. Virgin Islands, Puerto Rico, and Alaska will be ready within the next year.

These DLG data were originally collected from maps published in 1970. Extensive revisions have been made and no data source more than 5 years old was used in this update.

In addition, text files containing information such as place names and population have been added for the first time. The records in these text files can be related to corresponding features in the DLG data files.

Metadata that comply with the Federal Geographic Data Committee Content Standards for Digital Geospatial Metadata are included for each category of DLG data.

Data content and organization

The data are organized by State or territory. For each State, the following six or seven categories of DLG data are available:

1. **Boundaries**—States, counties, and Federal lands.

2. **Hydrography**—Streams and waterbodies.

3. **Roads and trails**—Interstate and primary State highways.

4. **Railroads**—Main line and branch line railroads.

5. **Miscellaneous transportation features—**Airports and pipelines.

6. **Manmade features**—Built-up areas, capitals, county seats, populated places, and population range.

7. **U.S. Public Lands Survey System** (collected only for the 30 public lands States)—Land grants, township, range, and subdivisions of the public lands.

Associated data files

In addition to the DLG data, there are two associated data files in ASCII format for each State that contain airport names and populated place names and populations. There are also two national files. One contains land grant names and identifiers for the entire United States. The other file contains the Federal Information Processing Standards five-digit codes for all States, State equivalents, counties, and county equivalents. Records in these data files can be associated with cartographic features contained in the DLG files.

Data distribution formats

These data are available on two CD-ROM discs. One disc contains data in Optional DLG, or DLG-O, format. The other disc contains DLG-O data in the Spatial Data Transfer Standard (SDTS) format.

The DLG-O files use an 8-bit ASCII character set, with an 80-byte logical record length, and coordinates in meters in the Albers Equal-Area Conic coordinate system.

The SDTS files were converted from the DLG-O files. During SDTS data encoding, the coordinates of the DLG-O data were transformed into latitude and longitude units of the geographic coordinate system.

SDTS

The SDTS is a mechanism for the transfer of spatial data between dissimilar computer systems. The SDTS specifies exchange constructs, addressing formats, structure, and content for spatially referenced vector and raster data. Advantages of the SDTS include data and cost sharing, flexibility, and improved quality, all with no loss of information.

At the date of this factsheet, only ARC/INFO Version 7 from Environmental Systems Research Institute of Redlands, Calif., includes an SDTS translator. Other vendors of geographic information system (GIS) software are developing SDTS translators.

Additional files

Each CD-ROM also contains descriptive text files to acquaint the user with the data formats. These files are in ASCII, Acrobat, PostScript Level 1, and WordPerfect 5.0 formats. In some cases, the ASCII text files are reformatted or abridged versions of the files are made available in the other formats.

Software

GS-Menu is a DOS-based text menu program provided to help users navigate the CD-ROM and browse the documents on the disc.

ArcView 1, a Windows-based data viewer, permits the display and query of the digital cartographic data.

Acrobat Reader retains the design, fonts, and format of original documents. Acrobat Reader software is included for DOS, Windows, Macintosh, and UNIX computer systems.

Hardware

Each CD-ROM adheres to the ISO-9660 standard, which allows users of all computers that comply with this standard to use the data.

GS-Menu requires the following hardware and software:

- 286-based (or greater) personal computer
- DOS version 5.0 or higher

ArcView 1 requires the following hardware and software:

- 386-, 486-, or Pentium-based computer system (for 386-based computer systems, a 387 math coprocessor is recommended)
- 8 megabytes of memory
- 6 megabytes of disk space
- VGA or greater display
- mouse
- Microsoft Windows 3.0 or greater
- disk-caching software is highly recommended

Acrobat Reader requires the following software:

For DOS:

- 386- or 486-based personal computer (486 recommended)
- DOS version 3.3 or greater
- 2 megabytes of application RAM (4 megabytes recommended)
- 5 megabytes of hard disk space
- CD-ROM drive

For Windows:

- 386- or 486-based personal computer (486 recommended)
- Microsoft Windows version 3.1 or greater
- 4 megabytes of RAM
- Installation requires approximately 2 megabytes of free space in the /TEMP directory
- 4 megabytes of hard disk space
- CD-ROM drive

For Macintosh:

- Macintosh computer with 68020 or greater processor
- Apple System software with version 7.0 or greater
- 2 megabytes of application RAM
- 2-3 megabytes of hard disk space
- CD-ROM drive

For UNIX:

- Sun SPARCstation workstation
- Solaris 1.1 operating system software (SunOS version 4.1.3 or Solaris 2.2 or greater)
- OpenWindows (version 3.0 or greater) or Motif Window manager (version 1.1.2 or greater)
- 8 megabytes of application RAM
- 14 megabytes of hard disk space
- CD-ROM drive

For more information

Price: $32 per disc

For further information or to order a disc, contact:

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1-800-USA-MAPS
